NOTES CONTINUED:

Ⓢ SCRIBE, ENGRAVE, OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER AND REVISION ON NOTED SURFACE FOLLOWED ON THE NEXT LINE BY A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE .07" HIGH CHARACTERS. EXAMPLE: DXXXXXXX-VY, S/N 001. A VIBRATORY TOOL MAY BE USED.

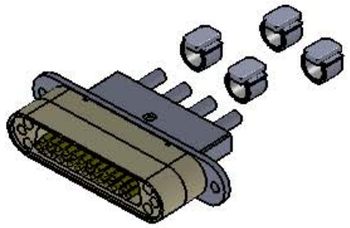
REV.	DATE	DCN #	DRAWING TREE #

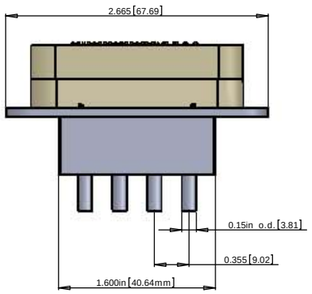
V25Z CABLE ASSEMBLY CIRCUIT SUMMARY

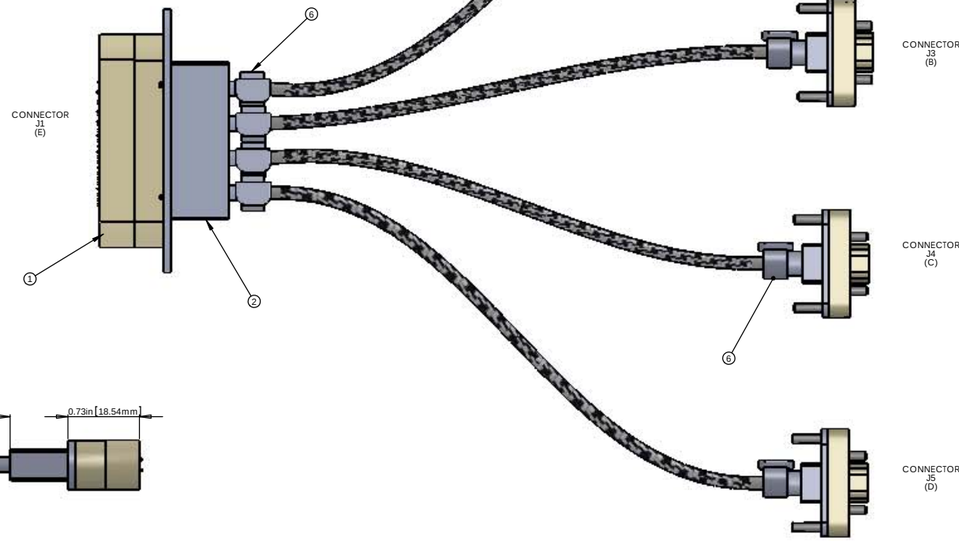
FROM

CONNECTOR J1 - 25 PIN MALE SUBMINI_D CONNECTOR (PEEK)

PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR
E1	(CABLE 1 SHIELD)			(CABLE 1 SHIELD)
E1	(CABLE 1) WIRE 1	White	60 in.	SINGLE WIRE
E14	(CABLE 1) WIRE 14	White	60 in.	TP-1A
E2	(CABLE 1) WIRE 2	White	60 in.	TP-1A
E15	(CABLE 1) WIRE 15	White	60 in.	TP-2A
E3	(CABLE 1) WIRE 3	White	60 in.	TP-2A
E16	(CABLE 1) WIRE 16	White	60 in.	TP-3A
E4	(CABLE 1) WIRE 4	White	60 in.	TP-3A
E1	(CABLE 2 SHIELD)			(CABLE 2 SHIELD)
E17	(CABLE 2) WIRE 17	White	60 in.	TP-1B
E5	(CABLE 2) WIRE 5	White	60 in.	TP-1B
E18	(CABLE 2) WIRE 18	White	60 in.	TP-2B
E6	(CABLE 2) WIRE 6	White	60 in.	TP-2B
E19	(CABLE 2) WIRE 19	White	60 in.	TP-3B
E7	(CABLE 2) WIRE 7	White	60 in.	TP-3B
E1	(CABLE 3 SHIELD)			(CABLE 3 SHIELD)
E20	(CABLE 3) WIRE 20	White	60 in.	TP-1C
E8	(CABLE 3) WIRE 8	White	60 in.	TP-1C
E21	(CABLE 3) WIRE 21	White	60 in.	TP-2C
E9	(CABLE 3) WIRE 9	White	60 in.	TP-2C
E22	(CABLE 3) WIRE 22	White	60 in.	TP-3C
E10	(CABLE 3) WIRE 10	White	60 in.	TP-3C
E1	(CABLE 4 SHIELD)			(CABLE 4 SHIELD)
E23	(CABLE 4) WIRE 23	White	60 in.	TP-1D
E11	(CABLE 4) WIRE 11	White	60 in.	TP-1D
E24	(CABLE 4) WIRE 24	White	60 in.	TP-2D
E12	(CABLE 4) WIRE 12	White	60 in.	TP-2D
E25	(CABLE 4) WIRE 25	White	60 in.	TP-3D
E13	(CABLE 4) WIRE 13	White	60 in.	TP-3D







V25Z CABLE ASSEMBLY CIRCUIT SUMMARY

TO

CONNECTOR J2 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)

PIN	WIRE NAME	SIGNAL
N/C	(CABLE 1) SHIELD	SHIELD
A5	(CABLE 1) WIRE 1	SHIELD
A1	(CABLE 1) WIRE 14	TOP1
A6	(CABLE 1) WIRE 2	TOP1
A2	(CABLE 1) WIRE 15	RIGHT
A7	(CABLE 1) WIRE 3	RIGHT
A4	(CABLE 1) WIRE 16	UL
A9	(CABLE 1) WIRE 4	UL

V25Z CABLE ASSEMBLY CIRCUIT SUMMARY

TO

CONNECTOR J3 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)

PIN	WIRE NAME	SIGNAL
N/C	(CABLE 2) SHIELD	SHIELD
B5	(CABLE 2) WIRE 1	SHIELD
B1	(CABLE 2) WIRE 17	M0 FACE 2
B6	(CABLE 2) WIRE 5	M0 FACE 2
B2	(CABLE 2) WIRE 18	M0 SIDE
B7	(CABLE 2) WIRE 6	M0 SIDE
B4	(CABLE 2) WIRE 19	R0 LEFT
B9	(CABLE 2) WIRE 7	R0 LEFT

V25Z CABLE ASSEMBLY CIRCUIT SUMMARY

TO

CONNECTOR J4 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)

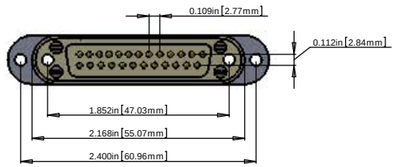
PIN	WIRE NAME	SIGNAL
N/C	(CABLE 3) SHIELD	SHIELD
C5	(CABLE 3) WIRE 1	SHIELD
C1	(CABLE 3) WIRE 20	M0 FACE
C6	(CABLE 3) WIRE 8	M0 FACE
C2	(CABLE 3) WIRE 21	R0 FACE 1
C7	(CABLE 3) WIRE 9	R0 FACE 1
C4	(CABLE 3) WIRE 22	R0 RIGHT
C9	(CABLE 3) WIRE 10	R0 RIGHT

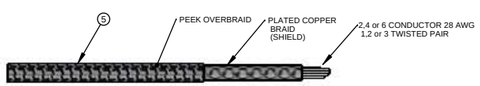
V25Z CABLE ASSEMBLY CIRCUIT SUMMARY

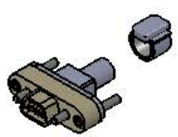
TO

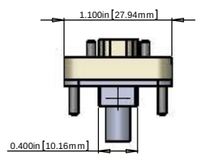
CONNECTOR J5 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)

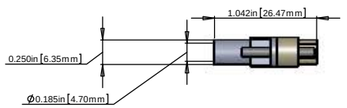
PIN	WIRE NAME	SIGNAL
N/C	(CABLE 4) SHIELD	SHIELD
D5	(CABLE 4) WIRE 1	SHIELD
D1	(CABLE 4) WIRE 23	M0 LEFT
D6	(CABLE 4) WIRE 11	M0 LEFT
D2	(CABLE 4) WIRE 24	R0 FACE 2
D7	(CABLE 4) WIRE 12	R0 FACE 2
D4	(CABLE 4) WIRE 25	R0 SIDE
D9	(CABLE 4) WIRE 13	R0 SIDE

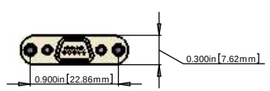












BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
1	CUSTOM DB25 MALE	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK)	1	
2		DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	1	
3	TICOR #TS0094	DB9 (DE9) FEMALE CONNECTOR (J2,J3,J4,J5) FOR UHV (PEEK)	4	
4	WITH FLYING LEADS	DB9 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	4	
5	C1	9 COND. (1, 2 or 3 TW PAIR+ SHIELD) CABLE (ADD COPPER BRAID (SHIELD) AND PEEK OVERBRAID)	4	60in.*
6	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID (BAND IT) CLAMP	4	

* NOTE: THE LENGTH IS MEASURED FROM PIN TIP (25 PIN) TO PIN TIP (9 PIN) OF THE CABLE

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATERIAL:
   a. CONNECTOR SHELL - PEEK.
   b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
   c. CONTACTS - BERYLLIUM COPPER ALLOW C17300
1. 0.000050 MIN. GOLD OVER NICKEL.
   d. HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED
   e. PEEK BRAID - PEEK CARBON FIBRE LOADED
2.
2. CABLE 2,4 or 6 COND. 28 AWG, (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE
   1,2 or 3 TWISTED PAIRS (4 TO 5 TWISTS PER INCH)
   OVERALL 40AWG SILVER PLATED COPPER BRAID 90% COVERAGE
   OVERALL PEEK BRAID MIN. 50% COVERAGE
   OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN.

STANDARD USE FOR THIS CABLE	
SUBSYSTEM	**STANDARD USE**
SUS	TRIPLE SUSPENSIONS TOP
SUS	TRIPLE SUSPENSIONS MIDDLE
SUS	TRIPLE SUSPENSIONS BOTTOM

NOTES: (UNLESS OTHERWISE SPECIFIED)
1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. REMOVE ALL SHARP EDGES, R.02 MIN.
3. DO NOT SCALE FROM DRAWING.
4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

DIMENSIONS ARE IN

TOLERANCES:
.XX ±
.XXX ±

ANGULAR ± °

MATERIAL: Material <not specified>

FINISH: µinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SYSTEM

SUB-SYSTEM: SUS

NEXT ASSY

PART NAME: **CUSTOM CABLE SPECIFICATION V25Z**

DESIGNER			
DRAFTER	E.BROWN	MAR/03/2010	
CHECKER			
APPROVAL			

SIZE: E | DWG. NO.: D1000236-v1 | REV.

SCALE: 2:1 | PROJECTION: | SHEET 1 OF 1

D1000236-V1 cable V25Z_PART FROM REV: DRAWING FROM REV: